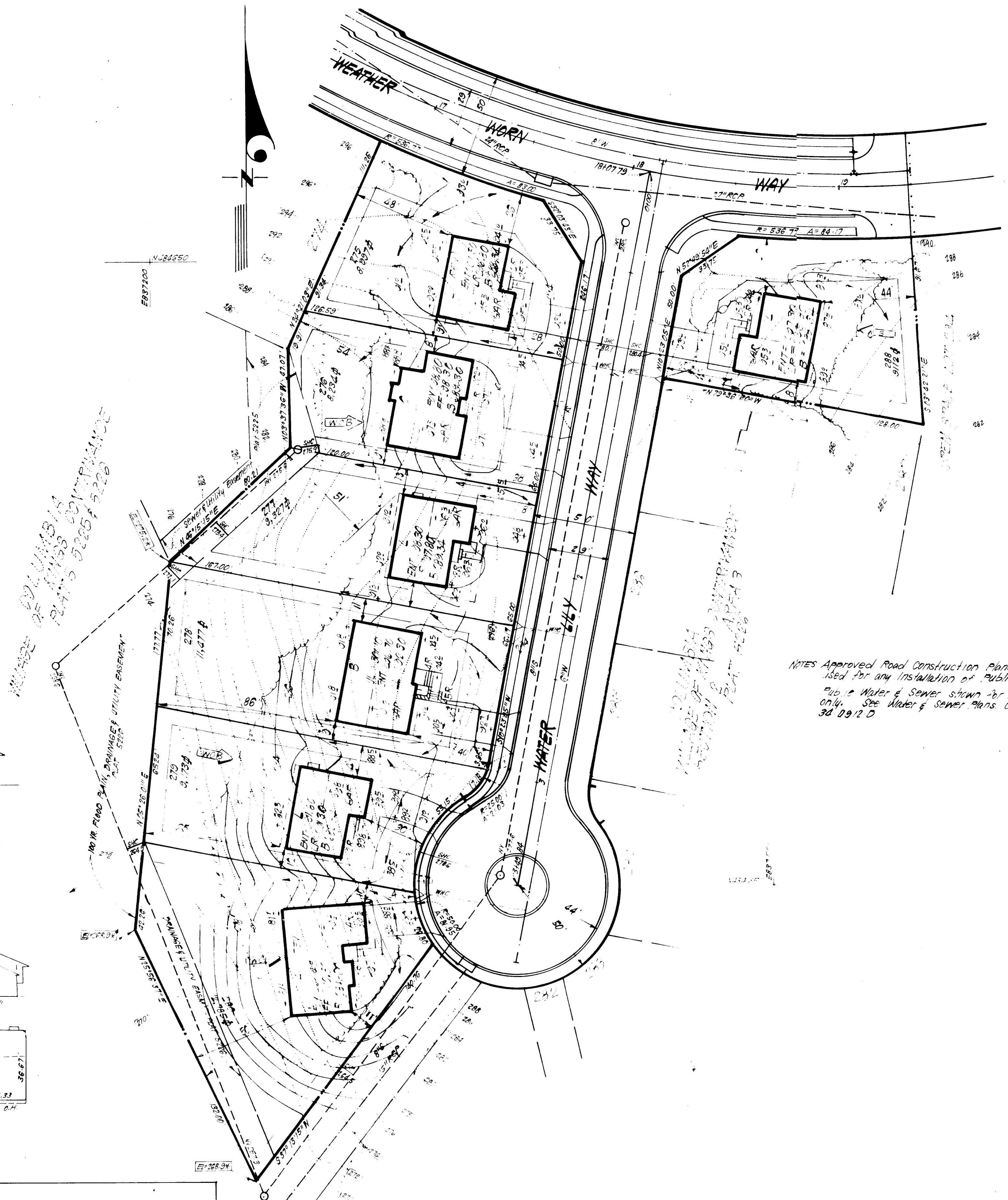
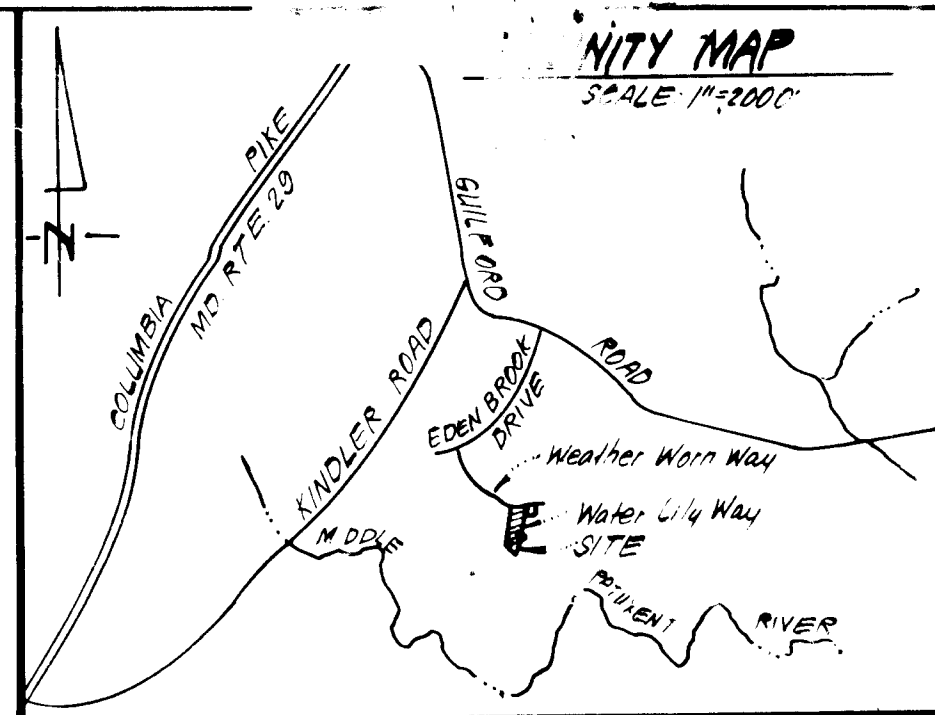


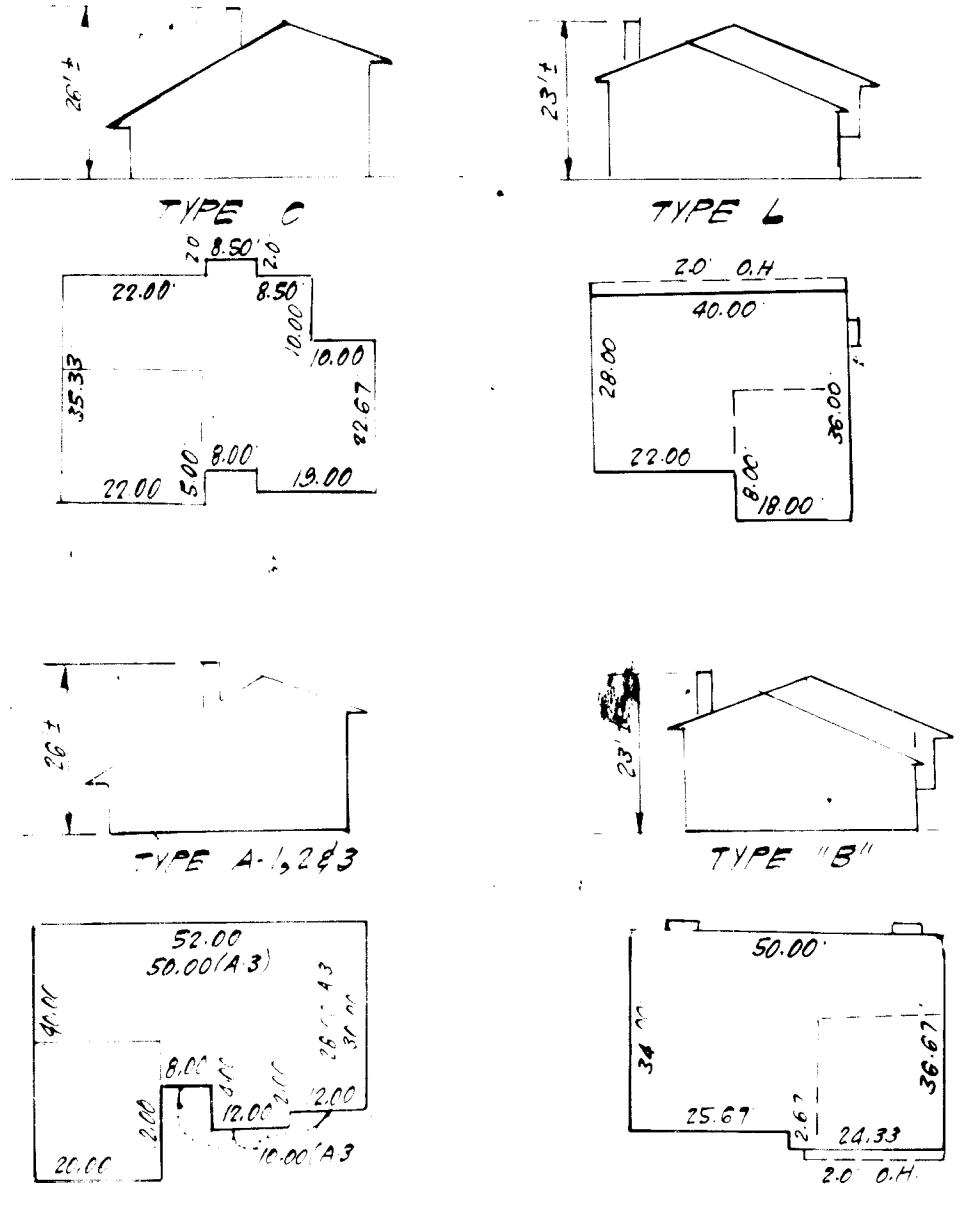
ART
ADDRESS
WATER LILY WAY



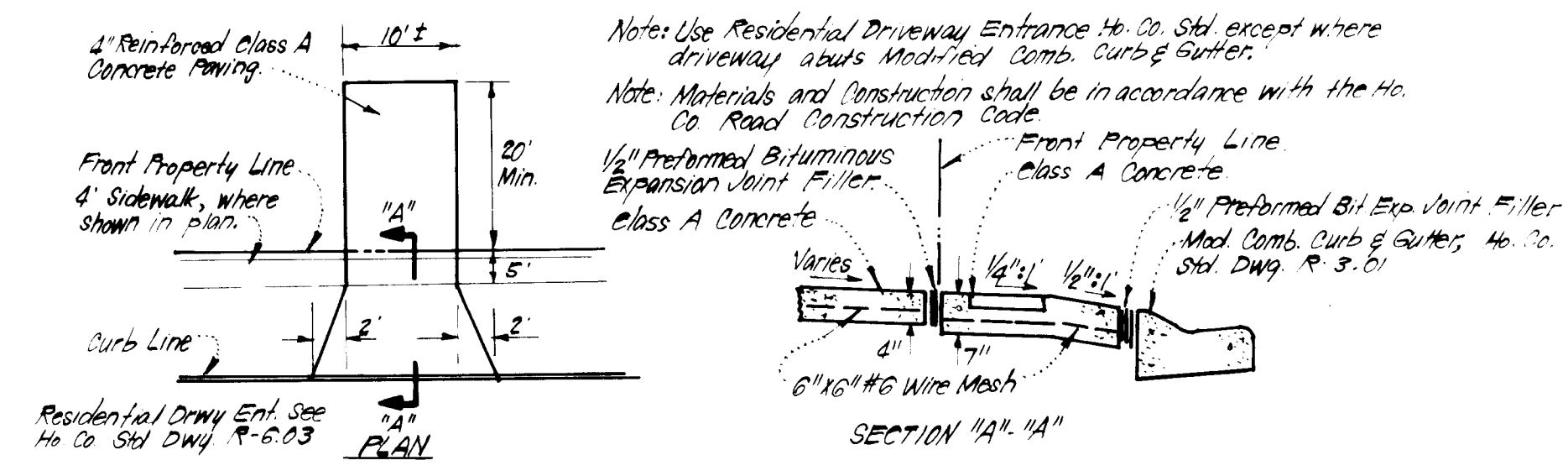
- GENERAL NOTES:**
- The land included in this plan is zoned: New Town (SFMD)
  - The lots shown on this plan are covered by F.D.P. #178, Part II
  - All coordinates shown herein are based on Howard County Sensitive Control Traverse which is based upon the Maryland State Plane Coordinate System.
  - The total area included in this plan is 1.586 Acres
  - All roadways are public and existing
  - Any damage to county owned rights of way or paving shall be corrected at the developer's expense.
  - Total number of Lots: 7

- LEGEND:**
- Contour Interval 2 Ft.
  - Existing Contour
  - Proposed Contour
  - Spot Elevation
  - Direction of Drainage
  - Existing Trees to be retained
  - Walk Out Basement
  - 100 Yr. Flood Plain Elevation

NOTES: Approved Road Construction Plans shall be used for any installation of Public Utilities.  
 Public Water & Sewer shown for reference only. See Water & Sewer Plans Contract No. 3D 0912 D.



TYPICAL HOUSES  
NO SCALE

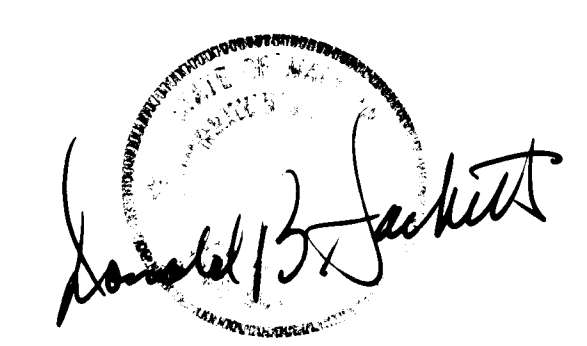


DRIVEWAY ABUTTING MOD. COMB. CURB & GUTTER  
NO SCALE

SUBDIVISION NAME	COLUMBIA V.O.C. PHASE 2	SECT./AREA	2/3	LOT/PARCEL #	275 THRU 288
PLAT # OR L.P.P. NUMBER	5285 & 5286	ZONE	13	PLAN/ZONE MAP	ELECT. DIST. DRAWING PR
WATER CODE	E-16	SEWER CODE	6082		

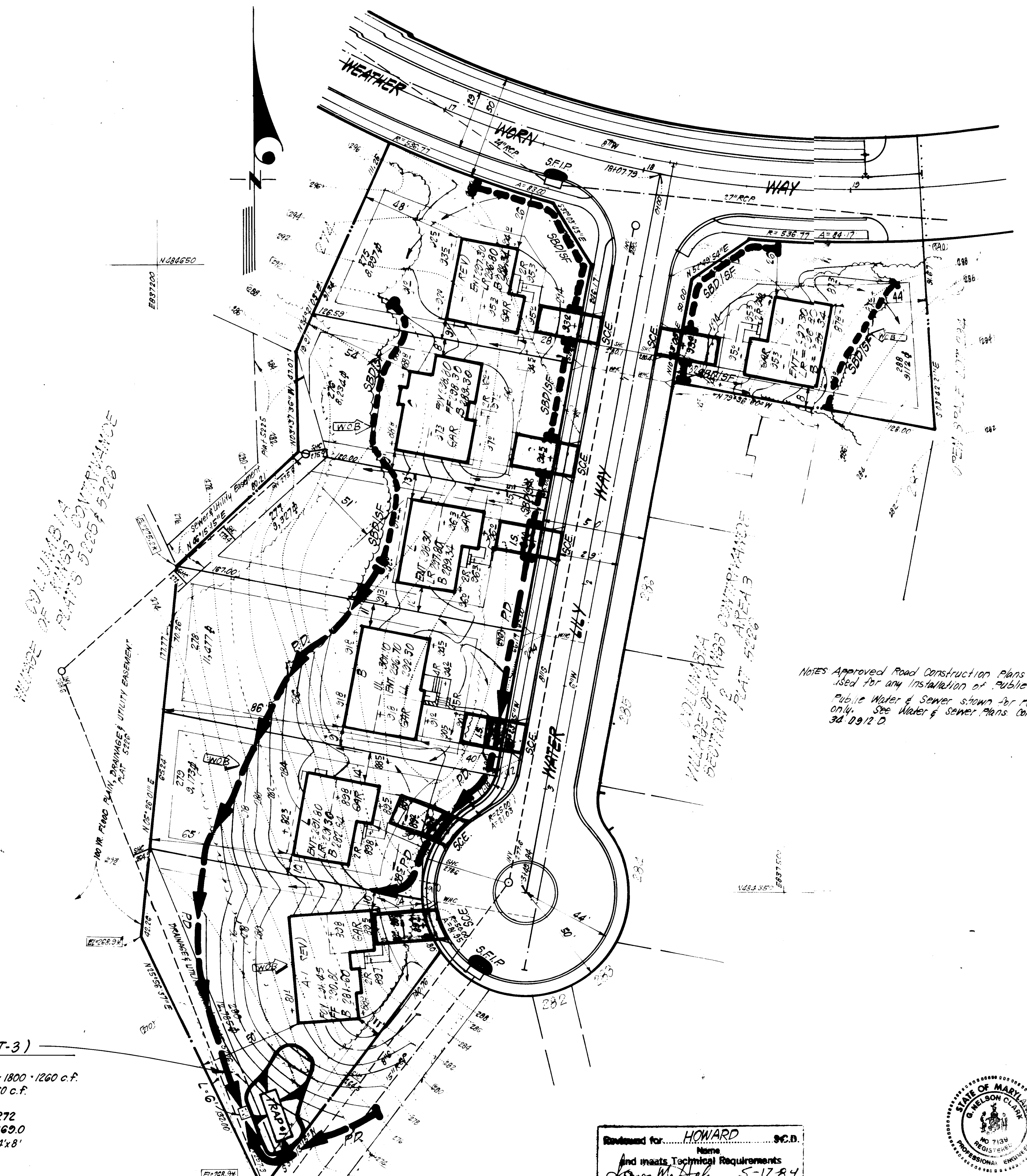
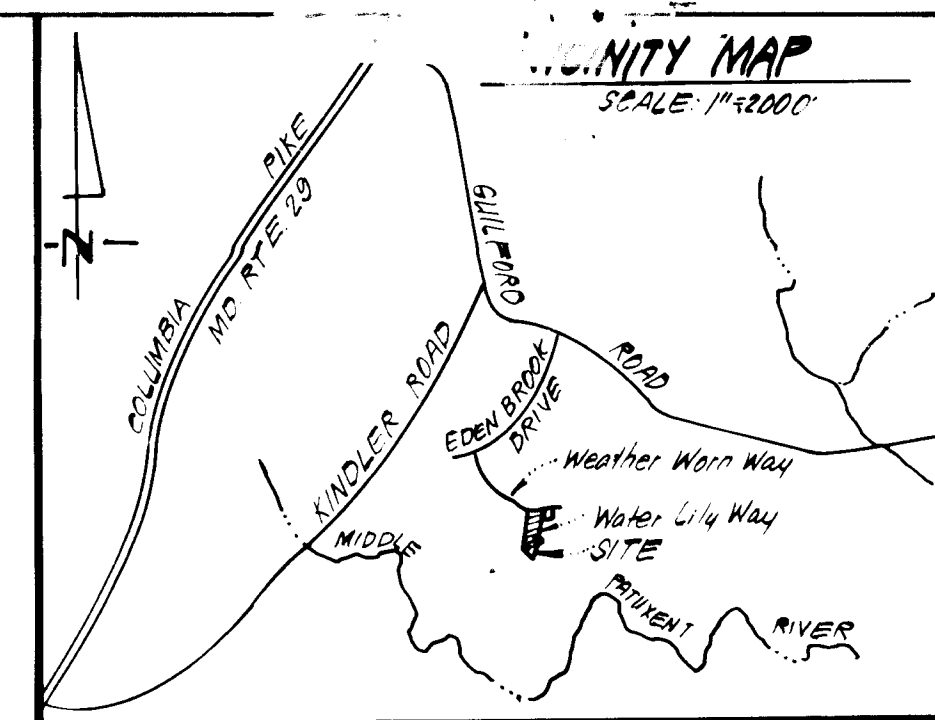
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS. HOWARD COUNTY HEALTH DEPARTMENT	<i>[Signature]</i>	5-22-84
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS AND PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	<i>[Signature]</i>	5-24-84
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS AND PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	<i>[Signature]</i>	5-24-84
APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS AND PUBLIC ROADS. HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS	<i>[Signature]</i>	5-21-84

APPROVED  
 DIVISION OF LAND DEVELOPMENT &  
 ZONING ADMINISTRATION  
 HOWARD COUNTY, MARYLAND  
 DATE **5-3-84**



<b>CLARK · FINEFROCK &amp; SACKETT</b> ENGINEERS · PLANNERS · SURVEYORS		
11315 LOCKWOOD DRIVE · SILVER SPRING, MARYLAND 20904 · (301) 593-3400		
DESIGNED	J.M.E.	SCALE
DRAWN	J.M.E.	1" = 30'
CHECKED	J.M.E.	DRAWING
DATE	3-4-84	10F3
		JOB NO.
		R2172
		FILE NO.
		82172-X

FOR: ALLAN HOMES, INC.  
 P.O. Box 1059  
 Columbia, Md 21044  
**SDP-84-241**



VILLAGE OF COLUMBIA  
PHASE 2  
PLATS 5225 & 5226

VILLAGE OF COLUMBIA  
PHASE 2  
PLAT AREA 3

NOTES Approved Road Construction Plans shall be used for any installation of public utilities. Public Water & Sewer shown for reference only. See Water & Sewer Plans Contract No. 30 0912 D.

- LEGEND:**
- Contour Interval 2 Ft.
  - Existing Contour
  - Proposed Contour
  - Spot Elevation
  - Direction of Drainage
  - Existing Trees to be retained
  - Walk Out - Basement
  - 100 Yr Flood Plain Elevation
  - Stone Filter Inlet Protection (SEIP)
  - Perimeter Dike (PD)
  - Straw Bale Dike/Silt Fence (SBD/SF)
  - Stone Construction Entrance (SCE)
  - Interceptor Swale

**TRAP #1 (SOST ST-3)**  
 PA = 0.7 Ac.  
 STORAGE REQUIRED = 07 x 1800 = 1260 c.f.  
 STORAGE PROVIDED = 1260 c.f.  
 DEPTH = 3'  
 TOP OF STONE CREST = 272  
 BOTTOM ELEVATION = 269.0  
 BOTTOM DIMENSION = 24 x 8'

Reviewed for: **HOWARD** S.C.D.  
 and meets Technical Requirements  
 of the U.S. Soil Conservation Service  
 Date: 5-17-84  
 Signature: [Signature]



**ENGINEER'S CERTIFICATE**  
 I hereby certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

**DEVELOPER'S/BUILDER'S CERTIFICATE**  
 "I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as it is deemed necessary."

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
 Approved: [Signature] Date: 5-17-84

Approved: [Signature] Date: 4-4-84

Approved: [Signature] Date: 4/5/84

SUBDIVISION NAME COLUMBIA VOL. C. PHASE 2	SECT./AREA 2/3	LOT/PARCEL # 215 THRU 220/218
PLAT # OR L.P. 5225 & 5226	BLOCK # 13	ZONE N.T.
WATER CODE E16	TAX/ZONE MAP 42	ELEC. DIST. 6TH
SEWER CODE 255/000	DEVELOPER'S TR. 6062	

APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS.  
 HOWARD COUNTY HEALTH DEPARTMENT  
 [Signature] DATE: 5-22-84

APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
 [Signature] DATE: 5-24-84

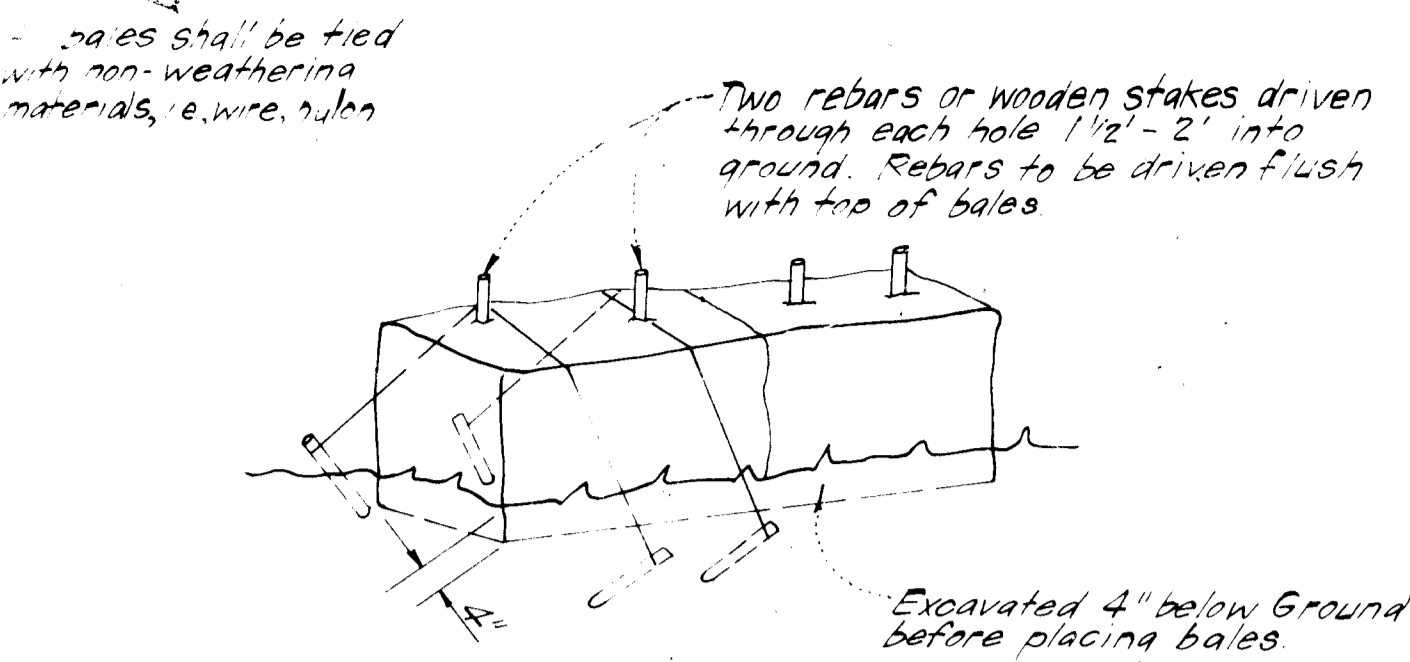
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS  
 HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
 [Signature] DATE: 5-21-84

**APPROVED**  
**DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION**  
**HOWARD COUNTY, MARYLAND**  
 DATE: **5-3-84**

<b>CLARK · FINEFROCK &amp; SACKETT</b> ENGINEERS · PLANNERS · SURVEYORS		
DESIGNED J.L.S.	<b>SEDIMENT AND EROSION CONTROL PLAN</b> LOTS 275 thru 280 and 288 <b>COLUMBIA</b> PHASE 2 SECTION 2 AREA 3 6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND FOR: ALLAN HOMES, INC. P.O. Box 1058 Columbia, MD 21044	SCALE 1" = 30'
DRAWN BAF		DRAWING 2053
CHECKED R/W		JOB NO. 82172
J.L.S.		FILE NO. 82172-9E
DATE 4-5-84		

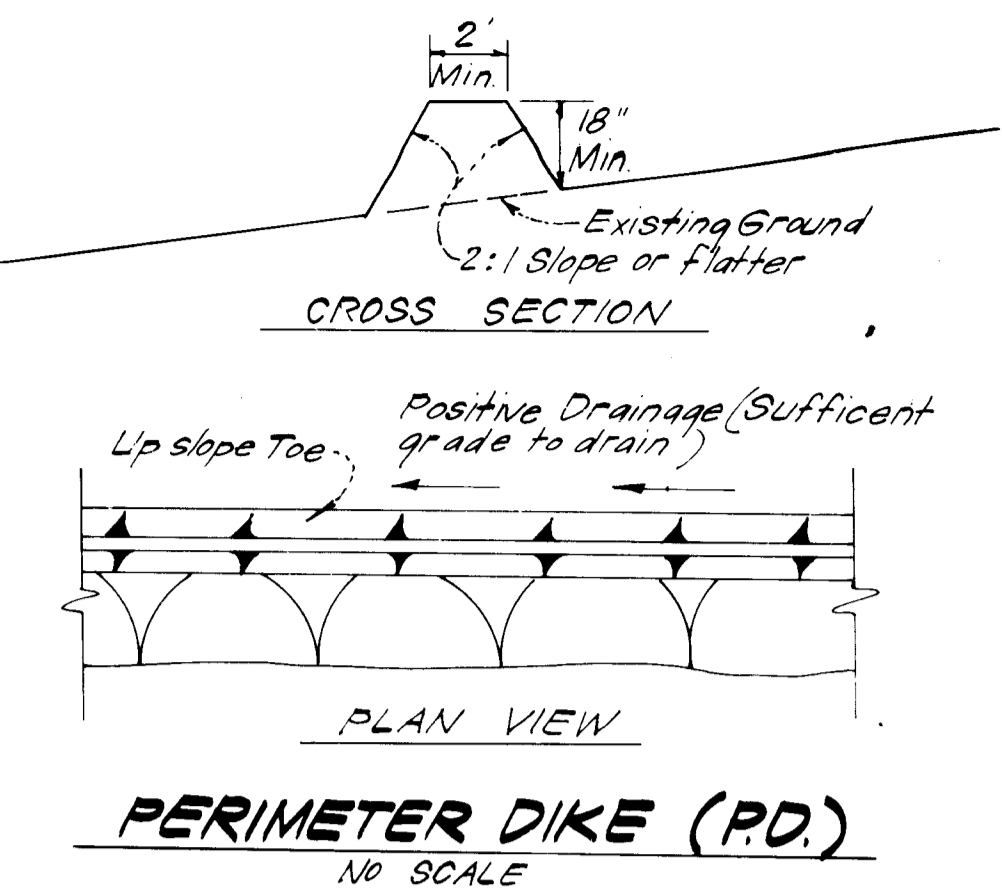
**GENERAL NOTES**

- Grading Permits shall be obtained prior to installation of Sediment Control & Grading.
- All Sediment and Erosion Control Measures will be installed and stabilized according to this plan prior to any other grading, clearing or disturbance of the existing surface of the site. See note #6 for stabilization except that the seed mixture will be annual rye applied at a rate of 1.4 lbs/1000 sf.
- Notify the Bureau of Inspections and Permits at least 24 hours before starting any work.
- All Sediment Control Practices to conform to the "Standards and Specifications for Soil Erosion and Sediment Control in Developing Areas" and shall be adjusted to meet actual field conditions.
- Stabilization of Disturbed ground to be done as soon after construction as possible.
- All disturbed areas to be stabilized in accordance with the following Specifications:
  - A. Seed - certified 85% germination applied at the rate of 3 lbs/1000 sf. Mixture - 40% Kentucky Blue, 20% chewing Fescue, 20% Kentucky 31 and 20% annual rye.
  - B. Fertilizer - 10-10-10 applied at a rate of 23 lbs/1000 sf. Ground Agricultural Lime or Dolomitic Lime applied at a rate of 30 lbs/1000 sf.
  - C. Mulch - Weed free grain straw applied at a rate of 70-90 lbs/1000 sf. Mulch shall be secured to the ground by any approved method i.e.; asphalt tacks, chemical binder etc.
  - D. All Sod used shall be Maryland State Certified.
- All structural Sediment Control Measures are to remain in place until permission for their removal has been obtained from the Bureau of Inspections and Permits.
- On-Site Inspection and Maintenance of all Sediment Control Measures including clean out of Sediment Traps and Dikes, and proper establishment of all planned vegetative measures will be the responsibility of the developer or his representative on the site, on a continuing day to day basis.
- It will be the developer's responsibility to provide additional Sediment & Erosion Control Devices to protect stabilized areas during construction.
- The Contractor shall keep all public roads free of sediment deposits left from traffic leaving construction site.
- Approval of this plan is conditional upon the approval of Sediment Control Plan for the off-site waste or borrow area prior to the import of any borrow or export of waste to or from this site.
- All pipes to be blocked at the end of each day. See detail this sheet NA.
- Total Amount of Straw Bales or Silt Fence shown = 490 LF
- SITE ANALYSIS:**
  - A. Total Area = 1586 Acres
  - B. Area to be Roofed = 0.257 Acres
  - C. Area to be Paved = 0.033 Acres
  - D. Area to be Seeded = 0.723 Acres
  - E. Area Undisturbed = 0.513 Acres
- CONSTRUCTION SEQUENCE:**
  - A. Install Sediment & Erosion Control Devices and Stabilize Diversion Dike
  - B. Excavate for Foundations and Rough Grade
  - C. Construct Structures, Driveways and Sidewalks
  - D. Final Grade and Stabilize in accordance with note #6
- If houses are to be constructed on an "As-Sold" basis at random, Single Lot Sediment Control, as shown on this sheet, shall be implemented.

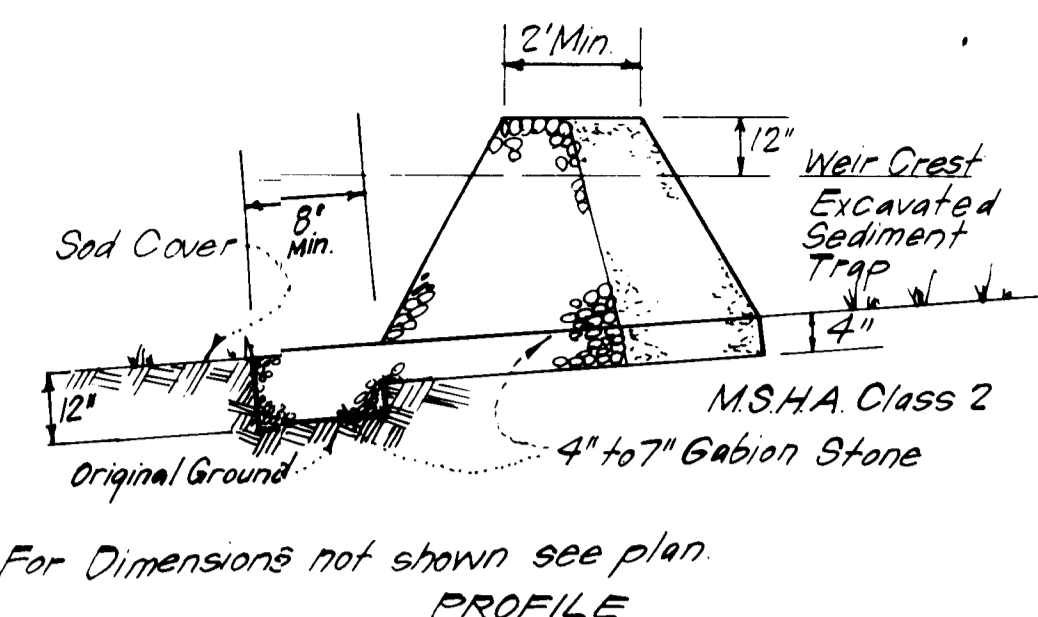


**STRAW BALE DIKE DETAIL (S.B.D.)**  
NO SCALE

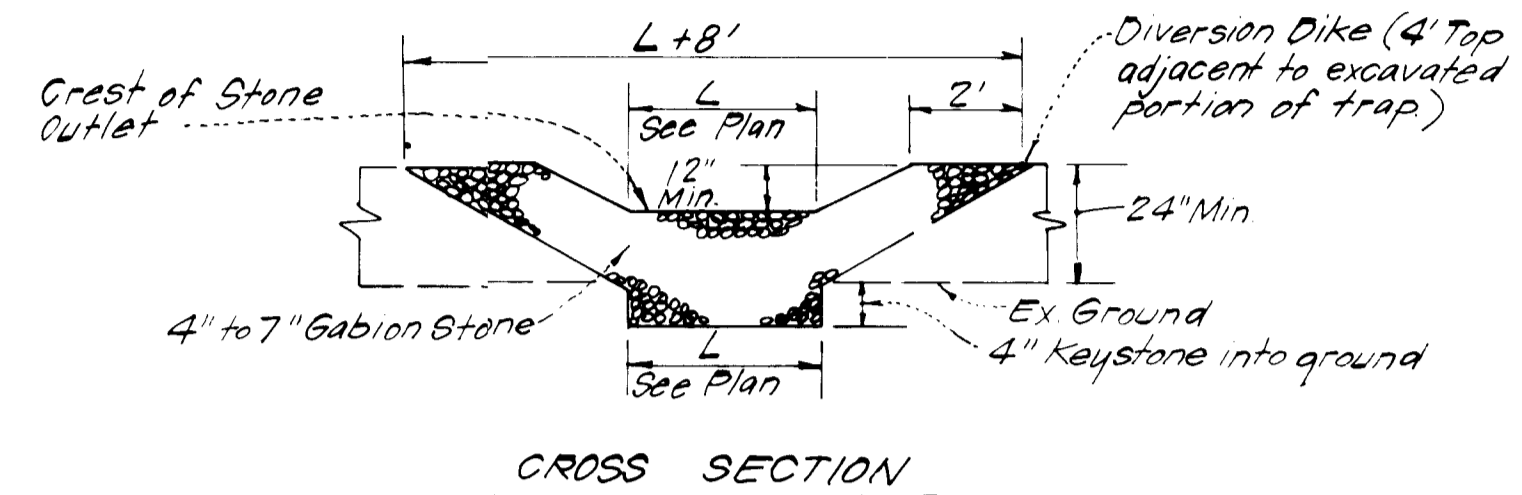
Note: In lieu of the use of rebar's each straw bale may be fastened to ground with pegs (4 per bale and wire or nylon as shown above.)



**PERIMETER DIKE (P.D.)**  
NO SCALE

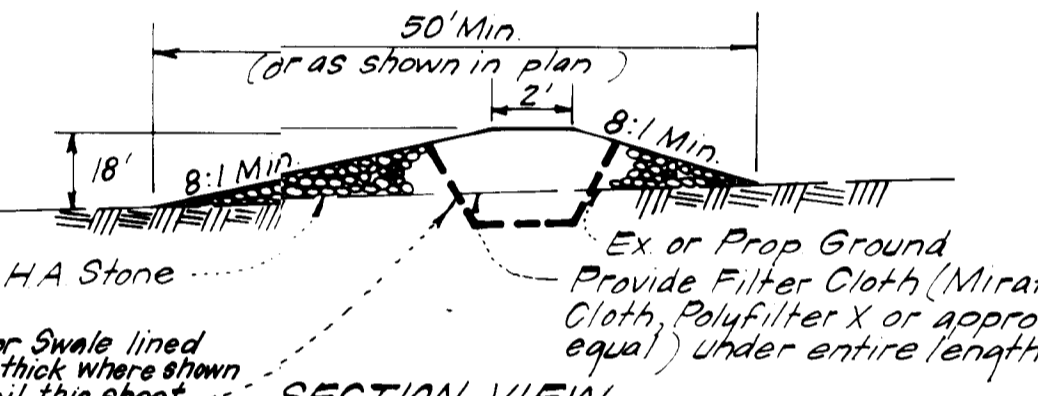


Note: For Dimensions not shown see plan

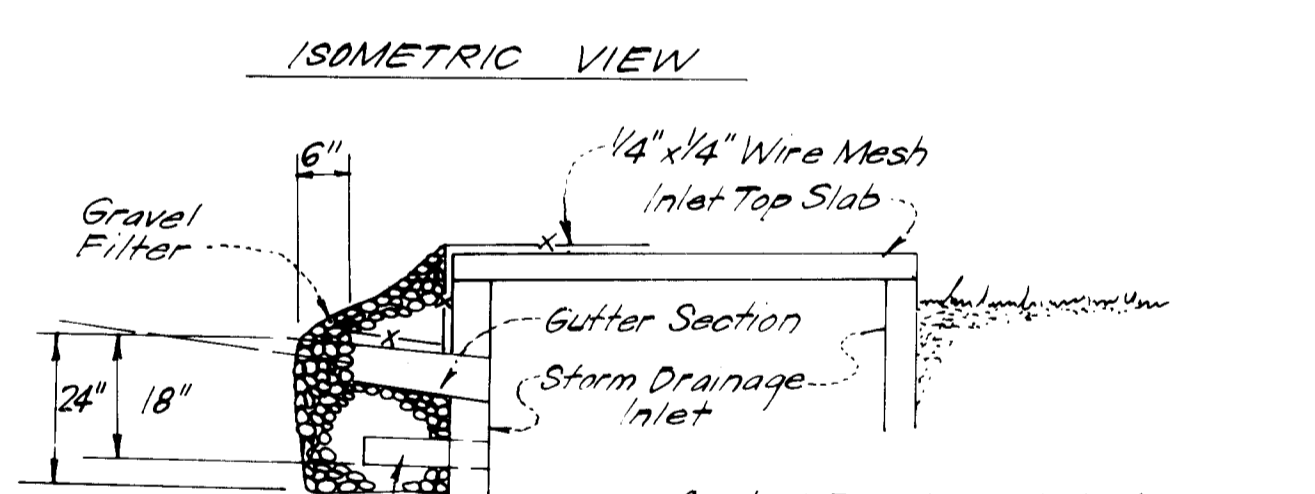
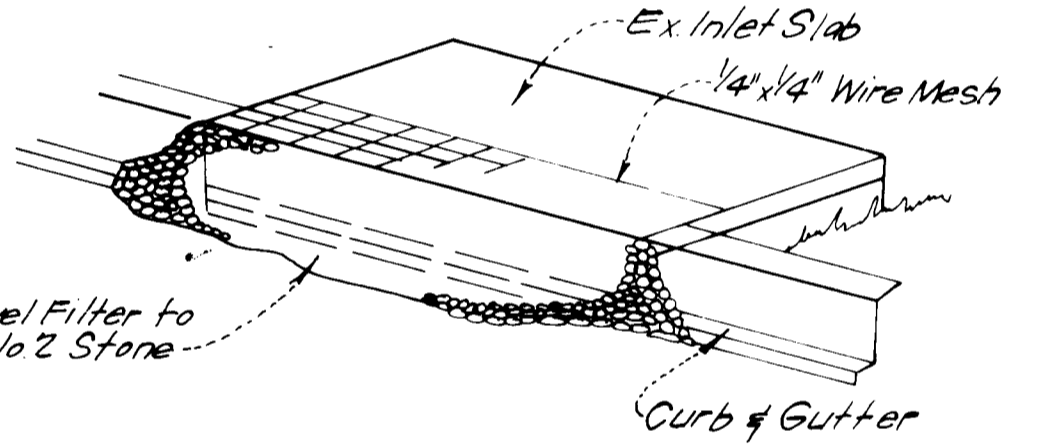


Notes:  
1. Sediment Trap to be cleaned out when sediment reaches a level of 1 foot below crest of stone outlet.  
2. Bottom of Sediment Trap to be level and constructed to the dimensions shown on plan.  
3. Stone Outlet to be constructed through diversion dike adjacent to excavated trap.

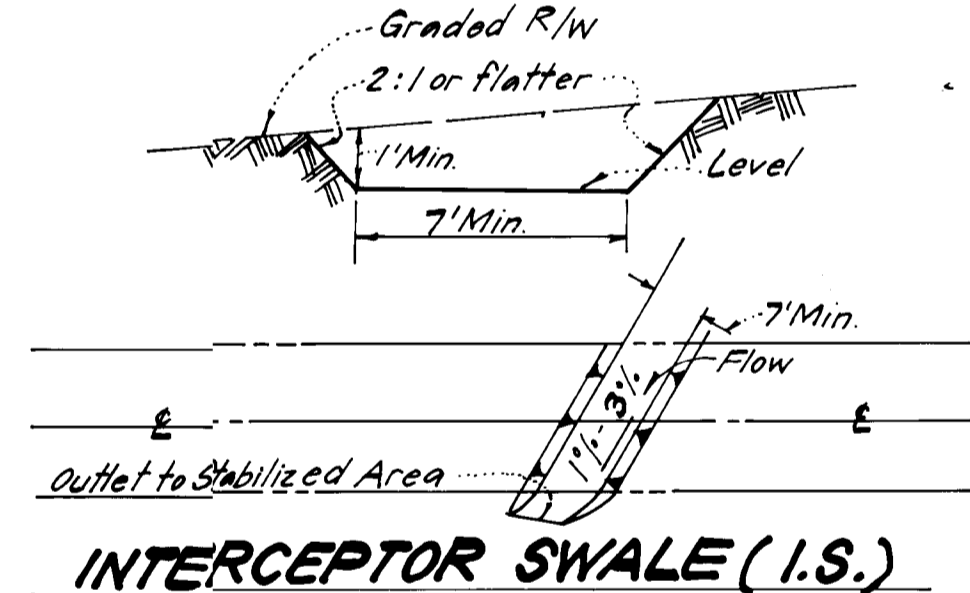
**DETAILS OF STONE FILTER OUTLET FOR STONE OUTLET SEDIMENT TRAP (S.O.S.T.)**  
NO SCALE



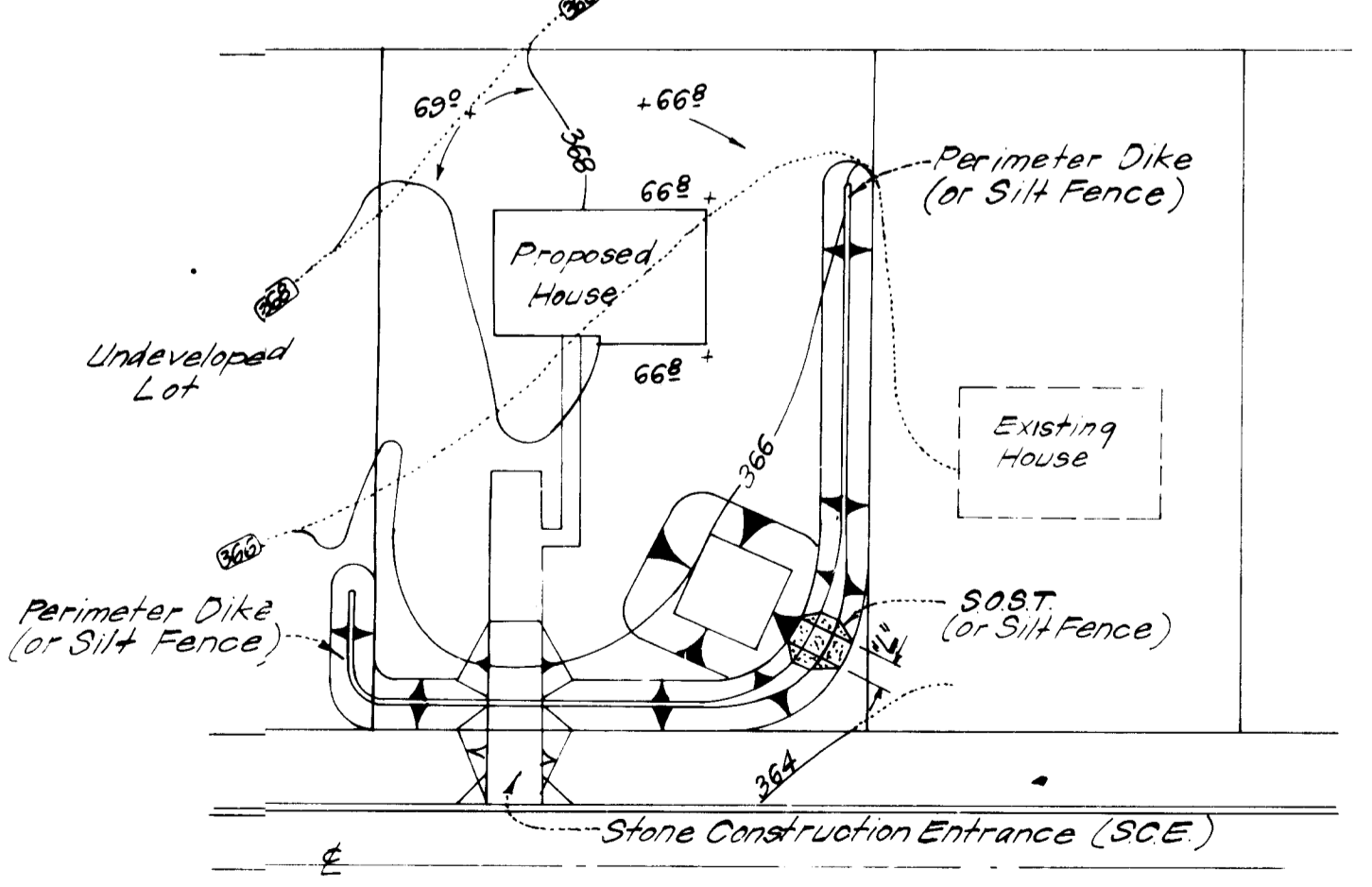
**STONE CONSTRUCTION ENTRANCE (S.C.E.)**  
NO SCALE



**STONE FILTER INLET PROTECTION (S.F.I.P.)**  
NO SCALE



**INTERCEPTOR SWALE (I.S.)**  
NO SCALE



S.O.S.T. *			
Lot Size	1/4 Ac.	1/2 Ac.	1 Ac.
L	2'	3'	6'
Depth	2'	2'	2'
Bot Length **	11'	26'	26'
Bot Width **	11'	11'	26'
Bot Area	12 sq ft	286 sq ft	676 sq ft

\* See Silt ST-3, pg 20.07 for detail not shown  
\*\* can be adjusted in field but bottom area must be the given or greater.

**SINGLE LOT SEDIMENT CONTROL PLAN**  
NO SCALE

- CONSTRUCTION NOTES:**
- Woven wire fence to be fastened securely to fence posts with wire ties or staples.
  - Filter cloth to be fastened securely to woven wire fence with wire ties spaced every 24" at top and mid-section.
- POSTS:** Steel, either T or U type or 2" Hardwood.  
**FENCE:** Woven wire, 14 1/2 Ga, Max 6" Mesh Opening.  
**FILTER CLOTH:** Filter X, Mirafi 100X, Laurel Erosion Control Cloth, Bidim, Polyfilter X or equal.

**SILT FENCE DETAIL (S.F.)**  
NO SCALE

Reviewed for: **HOWARD** S.C.D.  
Name  
and meets Technical Requirements  
Signature: *[Signature]* Date: 5-17-84  
U.S. Soil Conservation Service

**ENGINEER'S CERTIFICATE**  
I hereby certify that this plan for Erosion and Sediment Control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of the Howard Soil Conservation District.

THIS DEVELOPMENT PLAN IS APPROVED FOR SOIL EROSION AND SEDIMENT CONTROL BY THE HOWARD SOIL CONSERVATION DISTRICT.  
Approved: *[Signature]* Date: 5-17-84  
Approved: *[Signature]* Date: 4-4-84



**DEVELOPER'S/BUILDER'S CERTIFICATE**  
"I/We certify that all development and construction will be done according to this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction project will have a Certificate of Attendance at a Dept. of Natural Resources Approved Training Program for the Control of Sediment and Erosion before beginning the project. I also authorize periodic on-site inspection by the Howard Soil Conservation District or their authorized agents, as deemed necessary."  
Signature of Developer/Builder: *[Signature]* Date: 4/5/84  
Alan Washak

APPROVED FOR PUBLIC WATER AND PUBLIC SEWERAGE SYSTEMS, HOWARD COUNTY HEALTH DEPARTMENT.  
County Health Officer: *[Signature]* Date: 5-22-84  
APPROVED: HOWARD COUNTY OFFICE OF PLANNING & ZONING  
Planning Director: *[Signature]* Date: 5-24-84  
Chief, Division of Land Development and Zoning Administration: *[Signature]* Date: 5-24-84  
APPROVED: FOR PUBLIC WATER AND PUBLIC SEWERAGE, STORM DRAINAGE SYSTEMS AND PUBLIC ROADS, HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS  
Director: *[Signature]* Date: 5-21-84  
Chief Bureau of Engineering: *[Signature]* Date: 5-21-84

**APPROVED**  
DIVISION OF LAND DEVELOPMENT & ZONING ADMINISTRATION  
HOWARD COUNTY, MARYLAND  
DATE: 5-3-84

**CLARK • FINEFROCK & SACKETT**  
ENGINEERS • PLANNERS • SURVEYORS  
11315 LOCKWOOD DRIVE • SILVER SPRING, MARYLAND 20904 • (301) 593-3400

DESIGNED: J.L.S. DATE: 4-5-84  
DRAWN: BAF, K.W.L. DATE: 5-24-84  
CHECKED: J.L.S. DATE: 5-24-84

SCALE: As Shown  
DRAWING: 3 of 3  
JOB NO: 82-072  
FILE NO: 82-072 SE

FOR: ALLAN HOMES, INC. PO 1058 Columbia Md. 21044